FILE 'CAPLUS, MEDLINE' ENTERED AT 14:34:15 ON 04 MAY 2004
9 S (OSTEOARTHRIT? OR RHEUMATOID ARTHRITIS) (50A) (BLOOD (10A) (V

=> d que

L1

=>

9 SEA (OSTEOARTHRIT? OR RHEUMATOID ARTHRITIS) (50A) (BLOOD (10A) (VISCOSITY OR VISCOUS))

*—* 

see next page also.

inventor name search.

## FILE 'CAPLUS, WPIDS, MEDLINE' ENTERED AT 15:34:18 ON 04 MAY 2004 E MANION CARL/IN, AU E MANION C/IN, AU

55 S E16-E22 L1

L3

=>

28 S L1 AND (BLOOD OR ANTITHROMB? OR VISCOSITY) L2

20 DUP REM L2 (8 DUPLICATES REMOVED)

Next page has

Aspartame + other
Diseases
that may
be associd
GUITBlood
Viscosity

FILE 'REGISTRY' ENTERED AT 15:40:56 ON 04 MAY 2004

L1 1 S ASPARTAME/CN

SEL CHEM L1

L2 QUE E1-E7 OR E9-E21

FILE 'CAPLUS, WPIDS, MEDLINE, PHIC, PHIN' ENTERED AT 15:42:36 ON 04 MAY 2004

5858 S L2

1 S L3 AND MULTIPLE MYELOM?

4 S L3 AND (MACROGLOBULINEM? OR PLASMA CELL DYSCRAS? OR DYSPROTEI

4 DUP REM L5 (0 DUPLICATES REMOVED)

=> d que

L3 L4

L5

L6

L2

QUE (".ALPHA.-L-ASPARTYL-L-PHENYLALANINE METHYL ESTER"/B I OR .ALPHA.-SWEET/BI OR ASPARTAME/BI OR "ASPARTYLPHENYLA LANINE METHYL ESTER"/BI OR CANDEREL/BI OR "DIPEPTIDE SWEE TENER"/BI OR "E 951"/BI) OR ("L-.ALPHA.-ASPARTYL-L-PHENYL ALANINE METHYL ESTER"/BI OR "L-ASPARTYL-L-PHENYLALANINE METHYL ESTER"/BI OR "L-ASPARTYL-L-PHENYLALANYL METHYL ESTE R"/BI OR "L-ASPARTYL-L-3-PHENYLALANINE METHYL ESTER"/BI OR "METHYL ASPARTYL-L-3-PHENYLALANINE METHYL ESTER"/BI OR "METHYL ASPARTYLPHENYLALANATE"/BI OR NUTRASWEET/BI OR "PAL SWEET"/BI OR "PALSWEET DIET"/BI OR "SWEET DIPEPTIDE"/BI OR 172964-81-7/BI OR 22839-47-0/BI OR 53906-69-7/BI OR 7421-84-3/BI)

L3 5858 SEA L2

4 SEA L3 AND (MACROGLOBULINEM? OR PLASMA CELL DYSCRAS? OR

DYSPROTEINEM? OR (BLOOD (5A) VISCO?))

L6 4 DUP REM L5 (0 DUPLICATES REMOVED)

=>

L5

```
=> d
```

L4 ANSWER 1 OF 1 MEDLINE on STN

AN 2000424397 MEDLINE

DN PubMed ID: 10931557

TI Binding of nascent collagen by amyloidogenic light chains and amyloid fibrillogenesis in monolayers of human fibrocytes.

AU Harris D L; King E; Ramsland P A; Edmundson A B

CS Department of Biology, University of Utah, Salt Lake City, UT 84112, USA.

NC CA72803 (NCI)

SO Journal of molecular recognition : JMR, (2000 Jul-Aug) 13 (4) 198-212. Journal code: 9004580. ISSN: 0952-3499.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200009

ED Entered STN: 20000922

Last Updated on STN: 20000922 Entered Medline: 20000914

=> s 13 and (macroglobulinem? or plasma cell dyscras? or dysproteinem? or (blood (5a) visco?))

L5 4 L3 AND (MACROGLOBULINEM? OR PLASMA CELL DYSCRAS? OR DYSPROTEINEM ? OR (BLOOD (5A) VISCO?))

=> dup rem 15

PROCESSING COMPLETED FOR L5

L6 4 DUP REM L5 (0 DUPLICATES REMOVED)

=> d 1-4 bib ab kwic

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:247195 CAPLUS

DN 134:261255

TI N-L-.alpha.-aspartyl-L-phenylalanine 1-Me ester as **blood viscosity**-modulating substance, and use thereof

IN Manion, Carl V.

PA Oklahoma Medical Research Foundation, USA

SO PCT Int. Appl., 23 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

----PI WO 2001022983 A2 20010405 WO 2000-US25874 20000921
WO 2001022983 A3 20010816

W: AU, CA, MX, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

EP 1218024 A2 20020703 EP 2000-963682 20000921 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, FI, CY
PRAI US 1999-156119P P 19990925
WO 2000-US25874 W 20000921

AB N-L-.alpha.-aspartyl-L-phenylalanine 1-Me ester (APM) (or other alkyl ester) lowers whole **blood viscosity** in patients, including those suffering from sickle cell disease and **plasma** 

cell dyscrasias. Upon in vivo APM treatment, patients experienced a significant lowering of whole blood viscosity. In vitro addn. of APM to patients samples having elevated whole blood viscosity resulted in reduced viscosity over time. These in vitro and in vivo results identify APM as a therapeutic agent for mol. diseases which lead to elevated whole blood viscosity. A method by which APM treatment can be monitored is also disclosed. N-L-.alpha.-aspartyl-L-phenylalanine 1-Me ester as blood viscosity-modulating substance, and use thereof N-L-.alpha.-aspartyl-L-phenylalanine 1-Me ester (APM) (or other alkyl ester) lowers whole blood viscosity in patients, including those suffering from sickle cell disease and plasma cell dyscrasias. Upon in vivo APM treatment, patients experienced a significant lowering of whole blood viscosity. In vitro addn. of APM to patients samples having elevated whole blood viscosity resulted in reduced viscosity over time. These in vitro and in vivo results identify APM as a therapeutic agent for mol. diseases which lead to elevated whole blood viscosity. A method by which APM treatment can be monitored is also disclosed. aspartyl phenylalanine methyl ester blood viscosity Cardiovascular agents Sickle cell anemia Viscosity (aspartyl phenylalanine Me ester as blood viscosity -modulating substance) Drug delivery systems (unit doses; aspartyl phenylalanine Me ester as blood viscosity-modulating substance) 13433-09-5D, alkyl esters with phenylalanyl carboxyl moiety 22839-47-0, Aspartame RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (aspartyl phenylalanine Me ester as blood viscosity -modulating substance) ANSWER 2 OF 4 MEDLINE on STN 2001277727 MEDLINE PubMed ID: 11372003 Aspartame effect in sickle cell anemia. Manion C V; Howard J; Ogle B; Parkhurst J; Edmundson A Department of Clinical Pharmacology, Oklahoma Medical Research Foundation, Oklahoma City, OK 73112, USA. CA 72803 (NCI) Clinical pharmacology and therapeutics, (2001 May) 69 (5) 346-55. Journal code: 0372741. ISSN: 0009-9236. United States (CLINICAL TRIAL) Journal; Article; (JOURNAL ARTICLE) (RANDOMIZED CONTROLLED TRIAL) English Abridged Index Medicus Journals; Priority Journals 200106 Entered STN: 20010618 Last Updated on STN: 20010618

ΤI

AB

ST

IT

IT

ΤТ

L6

AN

DN

TI

ΑU

CS

NC

SO

CY

DT

T<sub>1</sub>A

FS

EM

AB

Entered Medline: 20010614

anemia. RATIONALE: Aspartame (1-aspartyl-

OBJECTIVE: To examine the in vitro and in vivo attributes of aspartame and to determine its efficacy for treating sickle cell

1-phenylalanine methyl ester) binds with 2 human Bence Jones proteins. The proteins (Mcg and Sea) showed phenylalanine penetrating into hydrophobic binding sites. This aspartame property suggested a potential to interfere with sickle hemoglobin fibril formation. METHODS: For the in vitro studies, blood from 20 subjects monitored for sickle cell anemia was collected in heparinized tubes. Specimens were divided in thirds and aspartame was added to 2 tubes to yield a 1 mg/mL or 2 mg/mL concentration. Sickled cells that were present after a drop from each aliquot was added to a fresh 2% metabisulfite solution were counted 3 times. For the in vivo studies, 23 subjects from the Sickle Cell Clinic (University of Oklahoma Health Sciences Center, Oklahoma City, Okla) consented to participate in a randomized single-dose administration of 1.5, 3.0, or 6 mg/kg aspartame. Heparinized blood was obtained at 0, 30, 60, 120, 240, 480, and 1440 minutes after aspartame administration. Specimens were counted in a blinded manner by means of the technique used for the in vitro method, but a photomicrograph of 1 field from each triplicate count was made. The pictures were marked and were computer counted. RESULTS: For the in vitro studies, sickled cells decreased from 28% to < 14% when 1 mg/mL aspartame was added and decreased further with 2 mg/mL. For the in vivo studies, a decreased number of sickled cells in homozygous blood (HbSS) were observed after oral administration of aspartame Sickling was inhibited by 6 mg/kg aspartame for at least 6 hours in 15 subjects with HbSS anemia. CONCLUSIONS: Further evaluations of the efficacy of aspartame for sickle crisis and crisis prevention appears to be warranted.

TI Aspartame effect in sickle cell anemia.

AB OBJECTIVE: To examine the in vitro and

OBJECTIVE: To examine the in vitro and in vivo attributes of aspartame and to determine its efficacy for treating sickle cell anemia. RATIONALE: Aspartame (1-aspartyl-

1-phenylalanine methyl ester) binds with 2 human Bence Jones proteins. The proteins (Mcg and Sea) showed phenylalanine penetrating into hydrophobic binding sites. This aspartame property suggested a potential to interfere with sickle hemoglobin fibril formation. METHODS: For the in vitro studies, blood from 20 subjects monitored for sickle cell anemia was collected in heparinized tubes. Specimens were divided in thirds and aspartame was added to 2 tubes to yield a 1 mg/mL or 2 mg/mL concentration. cells that were present after. . . Health Sciences Center, Oklahoma City, Okla) consented to participate in a randomized single-dose administration of 1.5, 3.0, or 6 mg/kg aspartame. Heparinized blood was obtained at 0, 30, 60, 120, 240, 480, and 1440 minutes after aspartame administration. Specimens were counted in a blinded manner by means of the technique used for the in vitro method, but. were computer counted. RESULTS: For the in vitro studies, sickled cells decreased from 28% to < 14% when 1 mg/mL aspartame was added and decreased further with 2 mg/mL. For the in vivo studies, a decreased number of sickled cells in homozygous blood (HbSS) were observed after oral administration of aspartame. Sickling was inhibited by 6 mg/kg aspartame for at least 6 hours in 15 subjects with HbSS anemia. CONCLUSIONS: Further evaluations of the efficacy of aspartame for sickle crisis and crisis prevention appears to be warranted.

. . . Gov't; Support, U.S. Gov't, P.H.S.
Administration, Oral
Adolescent
Adult
\*Anemia, Sickle Cell: DT, drug therapy
Anemia, Sickle Cell: GE, genetics
 \*Aspartame: TU, therapeutic use
\*Blood: DE, drug effects

Blood Viscosity: DE, drug effects

CT

Child, Preschool Genotype Middle Aged RN 22839-47-0 (Aspartame) L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN AN 2000:227518 CAPLUS DN 132:260685 ΤI Inhibition of erythrocyte sickling by N-L-.alpha.-aspartyl-L-phenylalanine 1-methyl ester IN Manion, Carl V.; Edmundson, Allen B. PA Oklahoma Medical Research Foundation, USA SO PCT Int. Appl., 40 pp. CODEN: PIXXD2 DTPatent English LA FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE \_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_ PIWO 2000018418 A2 20000406 WO 1999-US22268 19990925 WO 2000018418 Α3 20000720 W: AU, CA, JP, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE CA 2345243 AA 20000406 CA 1999-2345243 19990925 AU 9964008 AU 1999-64008 **A**1 20000417 19990925 AU 769651 B2 20040129 EP 1115414 A2 20010718 EP 1999-951596 19990925 EP 1115414 В1 20031217 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI JP 2002525334 T2 20020813 JP 2000-571936 19990925 AT 256474 E 20040115 AT 1999-951596 19990925 US 6384076 В1 20020507 US 2001-787994 20010322 PRAI US 1998-101876P Ρ 19980925 WO 1999-US22268 W 19990925 OS MARPAT 132:260685 N-L-.alpha.-aspartyl-L-phenylalanine 1-Me ester (APM) exhibits AΒ antisickling properties. In vitro testing verified that APM significantly lowered the frequency of sickling of red blood cells from each of twelve pediatric aged patients being treated for sickle-cell anemia by exchange transfusion. Sickling was also inhibited in an "index" patient after oral administration of APM. These in vitro and in vivo results identify APM as a therapeutic agent for the family of sickle cell mol. diseases. ST aspartylphenylalanine methyl ester erythrocyte sickling inhibition; sickle cell disease aspartylphenylalanine methyl ester; anemia sickle cell aspartylphenylalanine methyl ester ΙT **Blood** analysis (blood viscosity; aspartylphenylalanine Me ester for inhibition of erythrocyte sickling) IT Viscosity (blood; aspartylphenylalanine Me ester for inhibition of erythrocyte sickling) IT 13433-09-5D, esters **22839-47-0** RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (aspartylphenylalanine Me ester for inhibition of erythrocyte sickling) L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

Child

- AN 1997:145092 CAPLUS
- DN 126:143490
- TI Producing method of high nutrient phosphatide oral liquid
- IN Wang, Xizhao; Jin, Zhiguang; Tong, Qigen; Liu, Shuyi; Zhang, Fu; Zhang, Wentian; Liu, Wenxue
- PA Zhaofu New Technology Development Co., Peop. Rep. China
- SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp. CODEN: CNXXEV
- DT Patent
- LA Chinese
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1096686	Α	19941228	CN 1993-107365	19930624
	CN 1039783	В	19980916		
PRAT	CN 1993-107365		19930624		

- AB The process of making highly nutritious phosphatide oral liq. contg. soy bean phosphatide, vitamin E and unsatd. fatty acid is disclosed. It also contains cassia seed, Crataegus and essence. This oral liq. can lower blood lipid, blood viscosity and prevent arteriosclerosis.
- AB The process of making highly nutritious phosphatide oral liq. contg. soy bean phosphatide, vitamin E and unsatd. fatty acid is disclosed. It also contains cassia seed, Crataegus and essence. This oral liq. can lower blood lipid, blood viscosity and prevent arteriosclerosis.
- IT 50-81-7, Vitamin C, biological studies 4468-02-4, Zinc gluconate 15498-87-0, Selenious acid, sodium salt 16039-53-5, Zinc lactate 22839-47-0, Aspartame
  - RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses) (producing method of high nutrient phosphatide oral liq.)